

Title (en)

Image forming apparatus and control method thereof

Title (de)

Bilderzeugungsvorrichtung und Steuerverfahren dafür

Title (fr)

Appareil de formation d'images et son procédé de commande

Publication

**EP 2180690 A3 20100728 (EN)**

Application

**EP 09173640 A 20091021**

Priority

JP 2008274864 A 20081024

Abstract (en)

[origin: EP2180690A2] An image forming apparatus forms a color image using image carriers for a plurality of colors by electrophotography. The image forming apparatus stores, for each color, information on the shift amount between an ideal scanning line and an actual scanning line in the main scanning direction on the image carrier. For each color, a color misregistration correction amount calculation unit converts a readout address in a bitmap memory (403), based on the stored shift amount information, and reads out image data. A color misregistration correction unit (404) performs tone correction for the readout image data based on the address, outputting image data containing the value of the decimal part. A multi-level error diffusion unit (405) performs quantization by multi-level error diffusion processing for the tone-corrected image data containing the value of the decimal part.

IPC 8 full level

**H04N 1/50** (2006.01)

CPC (source: EP US)

**G06K 15/129** (2013.01 - EP US); **H04N 1/053** (2013.01 - EP US); **H04N 1/506** (2013.01 - EP US); **H04N 2201/04787** (2013.01 - EP US)

Citation (search report)

- [I] EP 1736835 A1 20061227 - CANON KK [JP]
- [I] US 6816269 B1 20041109 - LOCE ROBERT P [US], et al
- [I] US 6529643 B1 20030304 - LOCE ROBERT P [US], et al
- [A] US 6215512 B1 20010410 - IMAIZUMI SHOJI [JP], et al

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO SE SI SK SM TR

Designated extension state (EPC)

AL BA RS

DOCDB simple family (publication)

**EP 2180690 A2 20100428**; **EP 2180690 A3 20100728**; **EP 2180690 B1 20130424**; JP 2010099974 A 20100506; JP 5241429 B2 20130717; US 2010103442 A1 20100429; US 8625156 B2 20140107

DOCDB simple family (application)

**EP 09173640 A 20091021**; JP 2008274864 A 20081024; US 60454909 A 20091023